REMARKS

The present Preliminary Amendment is submitted to incorporate the Article 34 Amendments and to delete the multiple dependencies in claims 3-4, 6-7, 12, 14-16, 20-24, 27, 29-30, 36-37, 39-40, 43-45, thereby placing such claims in condition for examination and reducing the required PTO filing fee.

Copies of the amended portion of the claims with changes marked therein is attached and entitled "Version with Markings to Show Changes Made."

Respectfully submitted,

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531 Rec Version with Markings to
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CLAIMS

1. An electronic component mounting method comprising:

forming a ball (96, 96a) at a tip of a metal wire (95) by an electric spark similarly to wire bonding and forming a bump (3, 103) by thermocompression-bonding the formed ball to an electrode (2) of an electronic component (1) with supersonic waves by means of a capillary (93, 193);

mounting the electronic component on a circuit board (4) by aligning in position the electrode of the electronic component with an electrode (5) of the board with interposition of an anisotropic conductive layer (10) in which an insulating resin mixed with an inorganic filler is mixed with a conductive particle (10a); and

subsequently bonding the electronic component to the circuit board by hardening the insulating resin of the anisotropic conductive layer interposed between the electronic component and the circuit board while correcting warp of the board and crushing the bump with a pressure force of not smaller than 20 gf per bump applied to the electronic component against the circuit board by means of a tool (8) and heat applied from the electronic component side or heat applied from both the electronic component side and the board side,

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so that the electrode of the electronic component is electrically connected with the electrode of the circuit board.

2. An electronic component mounting method as claimed in claim 1, wherein, before mounting the electronic component on the board by aligning in position the electrode of the electronic component with the electrode (5) of the circuit board (4) with interposition of the anisotropic conductive layer after the formation of the bump,

a tip of the formed bump is shaped so as to prevent collapse of a neck portion of the bump by once pressurizing the bump with a load of not greater than 20 gf.

3. An electronic component mounting method as claimed in claim $1 \int_0^\infty r^2 dr$ wherein

the insulating resin (6m) of the anisotropic conductive layer is an insulative thermosetting epoxy resin, and an amount of the inorganic filler mixed with this insulative thermosetting epoxy resin is 5 to 90 wt% of the insulative thermosetting epoxy resin.

4. An electronic component mounting method as claimed in any one of claims 1 through 3, wherein

the insulating resin (6m) of the anisotropic conductive layer is in a liquid form when applied to the board, and after semi-solidifying the resin by hardening